



CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
April 30, 2013 10:00

This data report discusses real-time air monitoring data collected between 4/29/2013 07:00 and 4/30/2013 07:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for volatile organic compounds (VOCs) and ammonia (NH₃), using remote-telemetering RAESystems® AreaRAEs and hand-held instruments such as the RAESystems® MultiRAE.

Tables 1 and 2 (below) display data summaries for hand-held and AreaRAE instruments, respectively. Site maps and charts are available as attachments.

Table 1: Hand-held Real-time Air Monitoring Summary¹
April 29, 2013 07:00 – April 30, 2013 07:00

Analyte	Instrument	Number of Readings	Number of Detections	Average of Detections	Range of Detections
Community					
Ammonia	MultiRAE	1	0	NA	< 0.1 ppm
Work Area					
Ammonia	MultiRAE	11	0	NA	< 1 ppm
VOC	MultiRAE	1	0	NA	< 0.1 ppm

¹Please note: The data displayed here has not undergone complete QA/QC analysis and is presented in a preliminary format.
PPM = Parts Per Million



Table 2
Stationary AreaRAE Monitoring Stations Data Logged
4/29/2013 07:00 to 4/30/2013 07:00

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	NH3	5616	0	NA	< 1 ppm
	VOC	5616	0	NA	< 0.1 ppm
AR14	NH3	4321	0	NA	< 1 ppm
	VOC	4321	0	NA	< 0.1 ppm
AR16	NH3	3875	0	NA	< 1 ppm
	VOC	3875	0	NA	< 0.1 ppm
AR17	NH3	5432	0	NA	< 1 ppm
	VOC	5432	0	NA	< 0.1 ppm
AR18	NH3	5424	0	NA	< 1 ppm
	VOC	5424	0	NA	< 0.1 ppm

¹The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QA/QC as of this time.



CENTER FOR TOXICOLOGY
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Appendix

Air Monitoring Zone Classifications¹ April 30, 2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

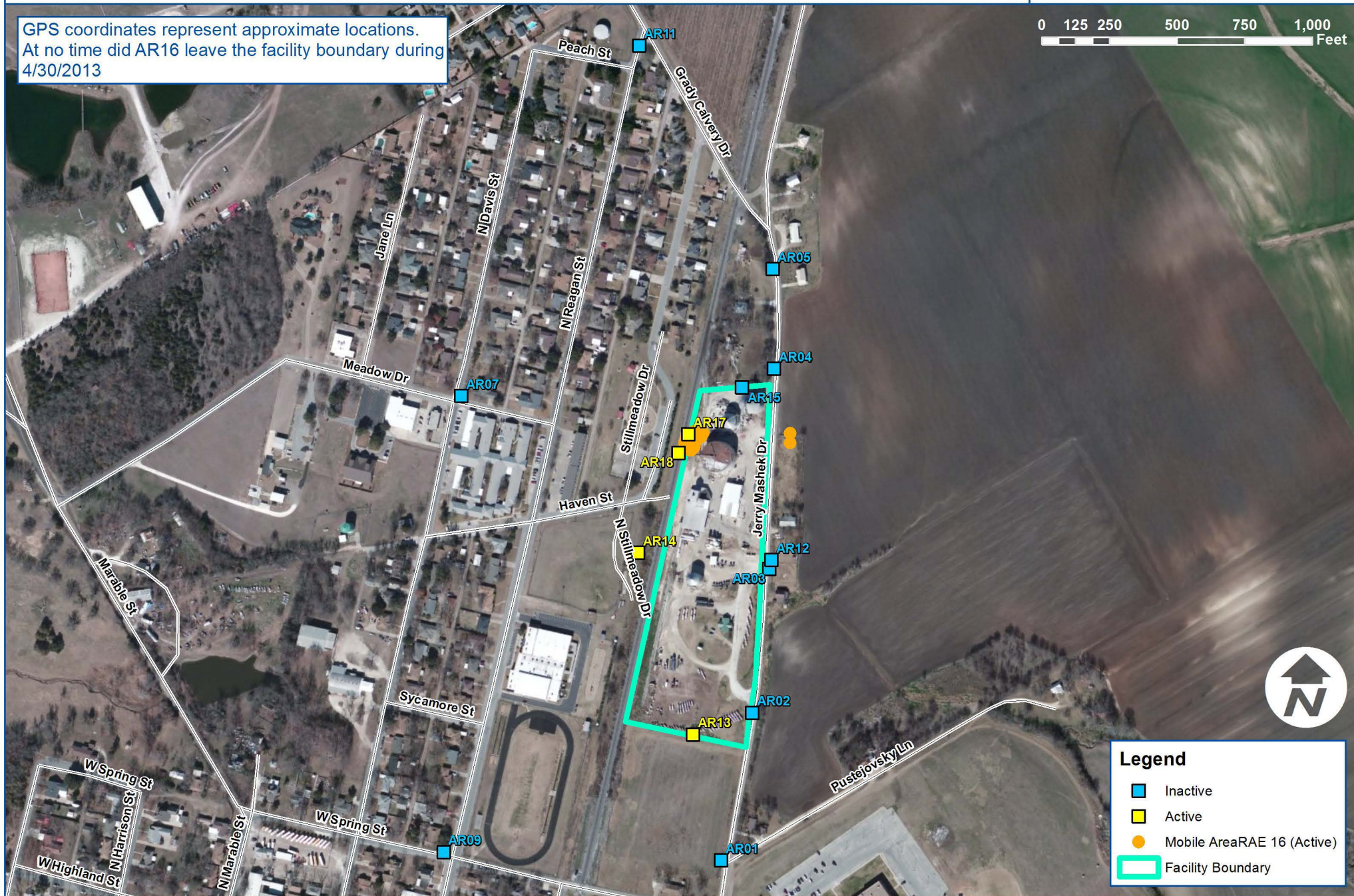


AreaRAE Monitoring Station Locations 4/30/2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

GPS coordinates represent approximate locations.
At no time did AR16 leave the facility boundary during
4/30/2013

0 125 250 500 750 1,000
Feet



Legend

- Inactive
- Active
- Mobile AreaRAE 16 (Active)
- Facility Boundary

Manually Logged Ammonia Real-Time Readings 4/29/2013 07:00 to 4/30/2013 07:00

Project: 40442
Client: OMI
City: West, TX
County: McLennan

GPS coordinates represent approximate locations.



Manually Logged VOC Real-Time Readings 4/29/2013 07:00 to 4/30/2013 07:00

Project: 40442
Client: OMI
City: West, TX
County: McLennan

GPS coordinates represent approximate locations.

Legend

VOC Detect



VOC Non-Detect



Facility Boundary

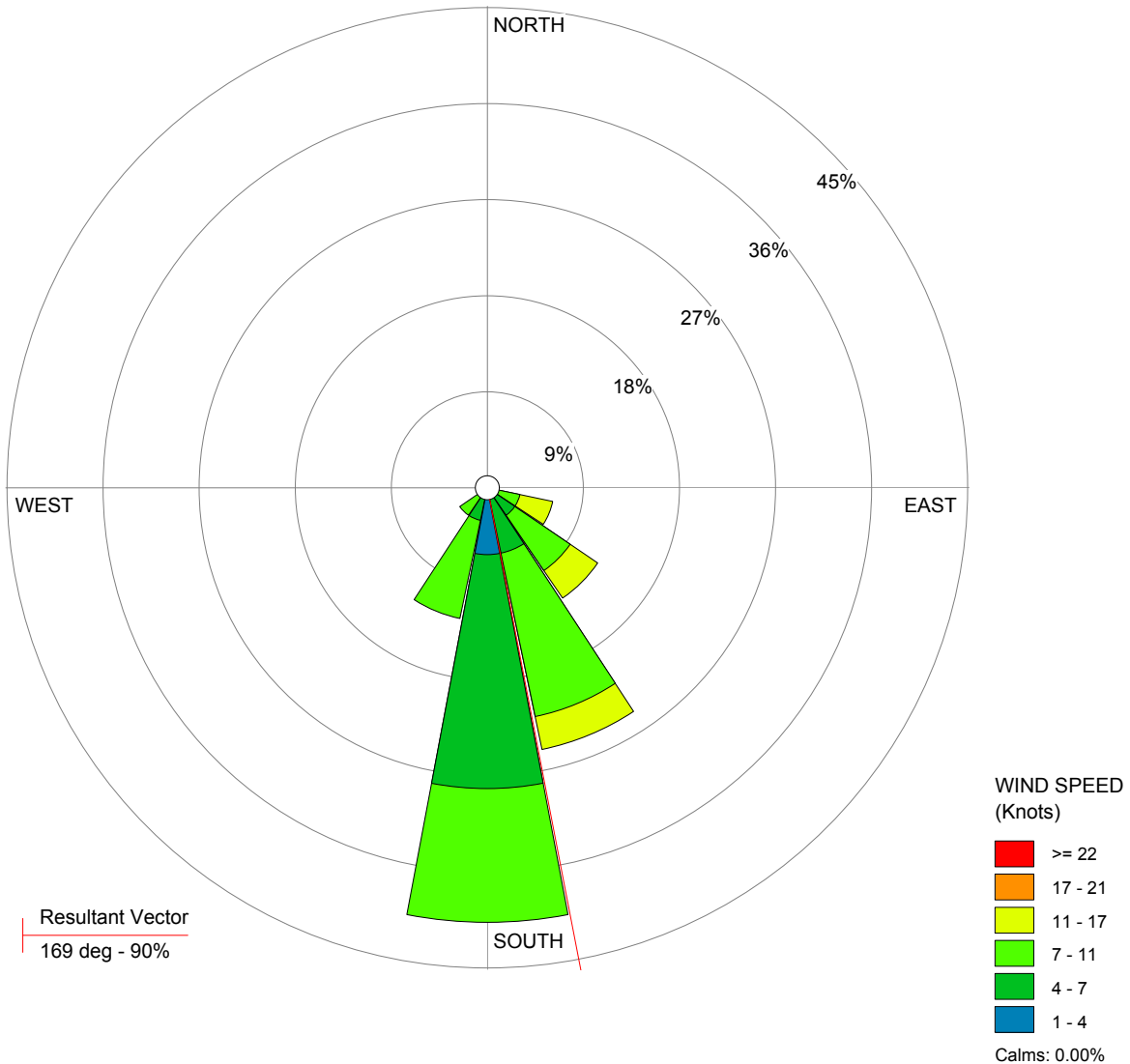


WIND ROSE PLOT:

Wind Speed and Direction 4/29/2013 07:00 to 4/30/2013 7:00
West, Tx

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

CTEH

MODELER:

Jason Callahan

CALM WINDS:

0.00%

AVG. WIND SPEED:

7.50 Knots



PROJECT NO.:

40442 - OMI